## Amendments to the Claims:

The following listing of claims will replace all prior versions and listings of claims.

## **Listing of Claims**

- 1-21. (Canceled)
- 22. (Currently amended) An isolated polynucleotide comprising the nucleic acid sequence of ORF ID 1 of Contig ID 51, represented by nucleotides 984 to 2066 of SEQ ID NO:51.
- 23. (Previously presented) The isolated polynucleotide of claim 22, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
- 24. (Previously presented) The isolated polynucleotide of claim 23, wherein said heterologous polynucleotide sequence encodes a heterologous polypeptide.
- 25. (Previously presented) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 22 into a vector.
- 26. (Previously presented) A nucleic acid sequence complementary to the polynucleotide of claim 22.
- 27. (Previously presented) A recombinant vector comprising the isolated polynucleotide of claim 22.
- 28. (Previously presented) The recombinant vector of claim 27, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 29. (Previously presented) A recombinant host cell comprising the isolated polynucleotide of claim 22.
- 30. (Previously presented) The recombinant host cell of claim 29, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 31. (Currently amended) An isolated polynucleotide for the detection of *Borrelia* burgdorferi, wherein said isolated polynucleotide comprises at least 50 contiguous nucleotides

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of the nucleic acid-sequence of ORF-ID-1 of Contig ID-51, represented by nucleotides 984 to 2066 of SEQ ID NO:51.

- 32. (Previously presented) The isolated polynucleotide of claim 31, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
- 33. (Previously presented) The isolated polynucleotide of claim 32, wherein said heterologous polynucleotide sequence encodes a heterologous polypeptide.
- 34. (Previously presented) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 31 into a vector.
- 35. (Previously presented) A nucleic acid sequence complementary to the polynucleotide of claim 31.
- 36. (Previously presented) A recombinant vector comprising the isolated polynucleotide of claim 31.
- 37. (Previously presented) The recombinant vector of claim 36, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 38. (Previously presented) A recombinant host cell comprising the isolated polynucleotide of claim 31.
- 39. (Previously presented) The recombinant host cell of claim 38, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
- 40. (Currently amended) A method for detecting *Borrelia burgdorferi* by nucleic acid hybridization or PCR, comprising:
  - (a) contacting a biological sample with the isolated polynucleotide of claim 22; and
  - (b) detecting the presence or absence of *Borrelia burgdorferi* in the sample.
- 41. (Currently amended) A method for detecting *Borrelia burgdorferi* by nucleic acid hybridization or PCR, comprising:
  - (a) contacting a biological sample with the isolated polynucleotide of claim 31; and
  - (b) detecting the presence or absence of Borrelia burgdorferi in the sample.

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